

MAINTENANCE ADVISORY

Crankcase Vent Tube Modifications to Prevent Potential Radiator Failures on the MEP-903 10 kW Auxiliary Power Unit (APU)

Numerous radiator failures have recently been reported for the MEP-903 10 kW APU. The problem could be due to multiple causes. One potential cause has recently been identified. Field representatives have observed oil vapors from the APU's crankcase vent tube being drawn into the radiator by the radiator fan. These hot, oily vapors can cause sand and dust to adhere to and block the radiator cooling fins. This blockage results in thermal hot spots and excessive mechanical expansion in parts of the radiator, which can result in radiator leaks especially in the presence of corrosion or abnormal vibration.

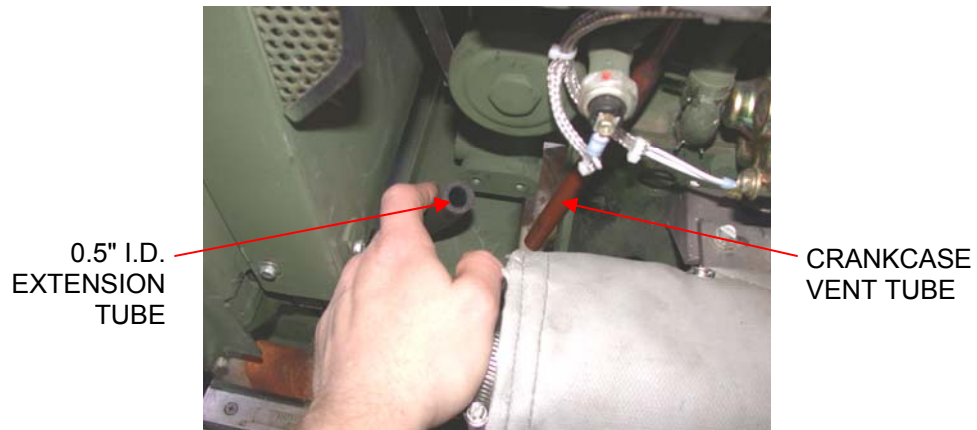
The following procedure is recommended as simple, expedient modification to the crankcase vent tube on the 10 kW APU to prevent the radiator from ingesting crankcase oil vapors.

1. **IMPORTANT:** Verify that the APU is off and that the muffler is not hot.
2. Locate the crankcase vent tube on the muffler side of the APU.



CRANKCASE VENT TUBE

3. Obtain a piece of 0.5-inch inside diameter rubber or nylon tube, approximately 10 - 12 inches in length. Feed the tube through the opening beneath the radiator.



4. Insert about 1 inch of the crankcase vent tube into the 0.5" I.D. extension tube.



5. Verify that the extension tube protrudes out from under the radiator.

